

CLAIMS

1. A fluoropolymer composition comprising a methylene group-containing fluoropolymer (A) and a hydrosilylation catalyst (B),
5 wherein said methylene group-containing fluoropolymer (A) has methylene group-containing repeating units in the main chain thereof and is capable of hydrosilylation in the presence of said hydrosilylation catalyst (B) and one
10 terminus of the chain is a carbon-carbon double bond or an Si-H group and the other terminus of the chain is an Si-H group or a carbon-carbon double bond.
2. The fluoropolymer composition according to Claim 1,
15 wherein the methylene group-containing fluoropolymer (A) is a vinylidene fluoride-based copolymer.
3. The fluoropolymer composition according to Claim 1 or 2, wherein the methylene group-containing fluoropolymer (A)
20 has fluidity at ordinary temperature.
4. The fluoropolymer composition according to Claim 1, 2 or 3, wherein the methylene group-containing fluoropolymer (A) has a number average molecular weight of not lower than
25 500 but not higher than 20000.
5. The fluoropolymer composition according to Claim 1, 2, 3 or 4,
which comprises the methylene group-containing
30 fluoropolymer (A), the hydrosilylation catalyst (B) and a hydrosilylation reaction-capable compound (C),
wherein said hydrosilylation reaction-capable compound (C) is a compound capable of hydrosilylation with said
methylene group-containing fluoropolymer (A),
35 each of both the main chain termini in said methylene

group-containing fluoropolymer (A) is a carbon-carbon double bond and

said hydrosilylation reaction-capable compound (C) is an Si-H group-containing compound (C1) having at least two Si-H groups within a molecule thereof.

6. The fluoropolymer composition according to Claim 1, 2, 3 or 4,

which comprises the methylene group-containing

10 fluoropolymer (A), the hydrosilylation catalyst (B) and a hydrosilylation reaction-capable compound (C),

wherein said hydrosilylation reaction-capable compound (C) is a compound capable of hydrosilylation with said methylene group-containing fluoropolymer (A),

15 each of both the main chain termini in said methylene group-containing fluoropolymer (A) is an Si-H group and said hydrosilylation reaction-capable compound (C) is a double bond-containing compound (C2) having at least two carbon-carbon double bonds within a molecule thereof.

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7. The fluoropolymer composition according to Claim 5 or 6, wherein the hydrosilylation reaction-capable compound (C) comprises a hydrosilylation reaction-capable polymer (Cp).

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8. The fluoropolymer composition according to Claim 7, wherein the hydrosilylation reaction-capable polymer (Cp) is a silicone rubber and/or a fluorosilicone rubber.

30 9. The fluoropolymer composition according to Claim 8, wherein the silicone rubber and/or the fluorosilicone rubber occurs as a liquid at ordinary temperature.

10. A cured material which is obtained from the
35 fluoropolymer composition according to Claim 1, 2, 3, 4, 5,

6, 7, 8 or 9.

11. A coating agent which comprises the fluoropolymer composition according to Claim 1, 2, 3, 4, 5, 6, 7, 8 or 9.

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12. A layered article which comprises a substrate and a coating layer obtained by applying the coating agent according to Claim 11 to said substrate.

10 13. A substrate-integrated molded material which is molded from the fluoropolymer composition according to Claim 1, 2, 3, 4, 5, 6, 7, 8 or 9 on a substrate by FIPG method or LIM molding method, wherein said substrate-integrated molded material is a
15 packing material.

14. A gasket for magnetic recorder (hard disk drive) which is made from the fluoropolymer composition according to Claim 1, 2, 3, 4, 5, 6, 7, 8 or 9.

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15. A sealing material for a fuel cell, wherein said sealing material is made from the fluoropolymer composition according to Claim 1, 2, 3, 4, 5, 6, 7, 8 or 9.

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16. A sealing material for a clean equipment, wherein said sealing material is made from the fluoropolymer composition according to Claim 1, 2, 3, 4, 5, 6, 7, 8 or 9.

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17. A method of molding a packing material, wherein said packing material is molded from the fluoropolymer composition according to Claim 3 by FIPG method or LIM molding method.

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18. A methylene group-containing fluoropolymer which is selected from the group consisting of vinylidene fluoride-based copolymer (I), tetrafluoroethylene-propylene-based copolymer (II) and hexafluoropropylene-ethylene-based

5 copolymer (III),

wherein each of both main chain termini is an Si-H group, and

the number average molecular weight of said methylene group-containing fluoropolymer is 500 to 500000.